

200kw wind-solar hybrid power generation system



Overview

There are three major types of solar PV cells: mono crystalline, poly crystalline and thin film. Mono crystalline cells have higher efficiencies (10-15%) than poly crystalline cells (9-12%) since the former have single crystal wafer cells. They are more expensive too. The thin film design is made up of. The globally acknowledged classification of WTGs into horizontal axis wind turbine (HAWT) and vertical axis wind turbine (VAWT) differs in aerodynamic and structural efficiencies. Functioning synonymously as a step-down transformer, the output voltage is reduced from the input voltage. It is basically an SC circuit controlled by the switching. A typical buck-boost setup is cheaper than Cuk configuration in due to the discontinuities and limitations. The long life of battery bank is dependent on maximum and minimum state of charge (SOC), depth of discharge (DOD), and capacity of each cell. Electrical power regulation and conditioning is a very important aspect in HRES. When there is a deficiency in the wind speed to rotate the blades, the energy stored in battery bank needs to be combined with the solar energy to supply the load. Likewise if.

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